## Heteroduplex oligonucleotide (HDO) Trial Service



## NIPPON SHOKUBAI CO., LTD. launches a service that allows customers to try HDO widely.

Both of pharmaceutical companies and academies can try this trial service.

■ Service Contents We offer HDO with ligand\* in your specified sequence and ligand.

Synthesis	A variety of modified oligonucleotides and ligands available
Purification	LC (RP, IEX)
Double-Strand Formation	Annealing
Drying	Lyophilization
Standard Test Items	RP-UHPLC and MS (single strand) / Native PAGE (double strand)
Cautions	

- ➤ Maximum sample volume is 30 mg (per sequence). \*\*
- > For experiment and research purposes only (not for human studies).
- > We may refuse sequences targeting fatty acid synthase genes.
- ➤ The approximate lead time for synthesis and analysis is within 1 month.

## ■ **About Technology** Click <u>here</u> for more details of HDO.



- ➤ HDO is an artificial functional nucleic acid consisting of an ANTISENSE strand and a CARRIER strand.
   ✓ ANTISENSE strand: oligonucleotide ( DNA, PMO, Gapmer, etc.) / CARRIER strand: RNA
- A variety of **LIGAND**s can be bound to the **CARRIER** stand.
- > HDO with LIGAND have significantly better knockdown activity than ASO.

## **■** Contact Information

- *Trial service* <u>health\_medical@shokubai.co.jp</u> ( **Nippon Shokubai Co., LTD.** | Health & Medical Division )
- HDO technology r.shimizu@renatherapeutics.com ( Rena Therapeutics Inc. | Ryohei SHIMIZU )

STEP 01
Contact

STEP 02
Quote

STEP 03
Synthesis / Analysis

<sup>\*</sup> HDO with ligand is provided by Nippon Shokubai Co., Ltd. under license from Rena Therapeutics, Inc.

<sup>\*\*</sup> When you order several different ligands with the same sequence, the total is 30 mg.